

Application No. 10/511,950
Amendment Dated 3/22/2007
Reply to Office Action of December 1, 2006

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A measuring arrangement for spectroscopic measurements on a particulate or a liquid sample, said measuring arrangement comprising:

a measuring cuvette for accommodating the sample, having at least one window through which the sample can be exposed to radiation, and comprising two shells adapted to form a container for the sample when assembled together; and

a rotating mount with which the measuring cuvette can be rotated about a predetermined axis of rotation, wherein an alignment of the axis of rotation deviates from a vertical reference direction; and

an actuator unit with which the measuring cuvette can be moved from a loading position into a calibration position or a measurement position.

2. (Previously Presented) The measuring arrangement according to Claim 1, wherein the axis of rotation is aligned horizontally.

3. (Previously Presented) The measuring arrangement according to Claim 1, wherein the measuring cuvette has a coupling device which cooperates with a driving device of the rotating mount.

4. (Previously Presented) The measuring arrangement according to Claim 3, wherein the coupling device has a coupling surface or a groove for a belt drive.

5. (Previously Presented) The measuring arrangement according to Claim 1, wherein the two shells are held together by a ring frame.

6. (Previously Presented) The measuring arrangement according to Claim 5, wherein the two shells have different volumes.

7. (Previously Presented) The measuring arrangement according to Claim 1, wherein the measuring cuvette contains mechanical mixing elements.

8. (Previously Presented) The measuring arrangement according to Claim 1, wherein the measuring cuvette has an opening for sample charging and removal.

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9. (Currently Amended) The measuring arrangement according to Claim 1, further comprising~~A measuring device for spectroscopic measurements on particulate samples, said measuring device comprising a measuring arrangement according to Claim 1 and a spectrometer.~~

10. (Canceled).

11. (Currently Amended) A method for spectroscopic measurement ~~on~~of a particulate or liquid sample, said method comprising the steps of:

providing a measuring arrangement according to Claim 1,

arranging the sample in ~~the~~a measuring cuvette ~~which can be rotated with a rotating mount~~, and

performing at least two spectroscopic measurements, wherein between the measurements, the measuring cuvette is rotated about ~~the predetermined~~an axis of rotation ~~which deviates from a vertical reference direction.~~

12. (Previously Presented) The method according to Claim 11, wherein the measuring cuvette is rotated about a horizontal axis of rotation between two measurements.

13. (Previously Presented) The method of Claim 11, comprising the step of spectroscopic analysis of particulate, free-flowing or suspended or liquid samples.

14. (Previously Presented) The method according to Claim 13, wherein said samples comprise agricultural products.

15. (Previously Presented) The method according to Claim 14, wherein said agricultural products comprise cereal grain or suspensions.